

that the invention is intended to be limited only as defined in the appended claims.

What is claimed is:

1. A preparative electrophoresis apparatus, comprising a funnel-shaped zone for the electrophoresis gel which is open at the upper side, a zone for circulating a first buffered solution thereabove containing a first electrode, said funnel-shaped zone at its lower end passing into a narrow aperture provided with a bottom enabling liquid to pass but to support the gel, said narrow opening being in connection with an elution chamber directly connected to an outlet, said elution chamber being further connected to a small conical jacket around the funnel-shaped zone, said conical jacket being connected with a zone containing a second electrode and being provided with an inlet for circulating a second buffered solution said inlet being situated between the zone containing the second electrode and the elution chamber, said elution chamber being provided with a downwardly directed outlet for the eluate, the apparatus further comprising means for cooling the liquids and the gel.
2. An apparatus according to claim 1, in which the elution chamber has a volume of 0.01 to 1 ml.
3. An apparatus according to claim 1, in which the elution chamber has a volume of 0.05 to 0.2 ml.
4. An apparatus according to claim 1, wherein the apparatus consists of an upper part comprising a conically shaped part of the wall defining the funnel-shaped zone, an outer wall defining the circulating zone for the first buffered solution, and the first electrode, said upper part fitting to a lower part comprising the outer wall of the conical jacket, the second electrode, the inlet for the second buffered solution and at the lower end of the conical wall a somewhat diverging part co-

operating with a plug provided with a central vertical passage, all in a manner such that the side walls of the elution chamber are formed by the lower part, the upper wall thereof by the upper part and the bottom is formed by the plug.

5. An apparatus according to claim 1, wherein the first electrode is height adjustable.

6. An apparatus according to claim 4, wherein the several parts are provided with ground glass joints (Schliffstuecke).

7. An apparatus according to claim 1, wherein the circulating zones for the buffered solutions are provided with overflows.

8. An apparatus according to claim 1, wherein in the circulation zone of the first buffered solution a cooling finger is applied, extending into the funnel-shaped zone, while a cooling vessel is applied about the thin conical jacket and a part of the inlet for the second buffered solution.

9. An apparatus according to claim 8, wherein the cooling finger is provided with an additional jacket ending at the lower end of the zone for the first buffered solution and provided at its lower end with apertures about the circumference allowing the first buffered solution to be introduced.

10. An apparatus according to claim 1, wherein the bottom of the lower end of the funnel-shaped zone consists of sintered glass.

11. An apparatus according to claim 1, wherein the bottom of the elution chamber is provided with a bottom ring to decrease the volume of the elution chamber.

12. An apparatus according to claim 1, substantially as described in the specification.

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